

The Wobbly Oscillator



Hams Who Serve

Cuyahoga Amateur Radio Society

April Meeting—Learn More About DISCORD

April 2025

Volume 55 — Number 4



From The Prez

Toby, WJ8D

Warm Weather Happenings

I love this time of year, as like most Ohioans who enjoy the rebirth we know as spring. Put away the snow shovels and the winter clothes and get out the lawn furniture and barbeque grills. For hams, and especially CARS members, this is truly a great time.

We now have an opportunity to comfortably get outside and repair antennas that were damaged by the brutality of winter, or erect new ones that have patiently sat in boxes, or ones that were assembled in basements, garages, or by diehards in living rooms.

In May, of course, there is the Dayton Hamvention, the premier Amateur Radio event in the world. How lucky we are to be so close. Luckier still to have our club sponsor an all-day bus trip to the event aboard a first class luxury liner with an extremely reasonable cost to riders. On Memorial Day, CARS volunteers manage the Seven Hills Parade. Starting in June, and in July and August, we move our monthly meetings outdoors to the Harriet Keeler Picnic Area in the Brecksville Reservation. The last weekend in June is the Super Bowl of Ham radio - Field Day. This year we will be at Nike Park in Parma operating a six station operation featuring Single Sideband, Morse Code, and FT-8 digital. During the summer we often participate in Home Days events in Seven Hills and Independence. In August we have our popular summer picnic, free to all CARS members, their families, and friends.

Equipment Resale Team

Frequently we are contacted by people wishing to dispose of unwanted amateur radio equipment. To do so we need to evaluate said equipment for resale. We must pick the gear up, function test it, clean and repair everything as necessary, advertise it, and pack and ship what we sell. Obviously, it is a lot of work.

In the past Bob Check, W8GC, handled this task with some help picking the equipment up. With Bob no longer an active member, we need a small team to take over. We now have two groups of gear to look at.. I can start the ball rolling.

I would sure appreciate some help with this new responsibility I have inherited. Anyone interested in giving me a hand with this endeavor, please contact me at wt8o@att.net or 440-525-6109.

Dinner Meeting

We had an excellent dinner meeting in March at Denny's in Parma. The room was private and cozy with ample seating. The food was fine, and the service was outstanding. We thank our Vice President Ron, K8RJH, and his XYL Esther, soon to a licensed ham, for finding and reserving the private dining room for us

7aby, W980



50:50 Drawing Results

The CARS meeting in March was a dinner meeting at Denny's in Parma the perfect opportunity to apply those winnings from the 50:50 raffle. Ron, K8RJH chose to donate his winnings back to the club. A correction from February. . . Scott, AC8NW won the 50:50. not Bob, K8RGI as reported in the WO.



March VP Report

**Consider the Value of
ARRL Membership!**

Support ARRL with your Membership and renewals!
Learn.arrl.org

Registration is open for the next interactive session of ARRL's "On the Air Live," which is scheduled for Tuesday, March 25, 2025, at 8 PM Eastern / 5 PM Pacific in the ARRL Learning Center. It will focus on advanced functions of handheld radios, including getting them on digital modes. "On the Air Live" is accessed through the ARRL Learning Center at learn.arrl.org. It is a benefit of ARRL membership, and members must be logged into the website to access it for live or archived sessions.



Basic EmComm is available in the ARRL Learning Center

Update: Intermediate EmComm is now available in the ARRL Learning Center.

Latest ARRL Podcasts... - Have a Ham Radio Open House in April

World Amateur Radio Day (WARD) is April 18 every year, and in 2025, WARD is extra special, and

- Slow-Scan TV: Sending Pictures by Radio

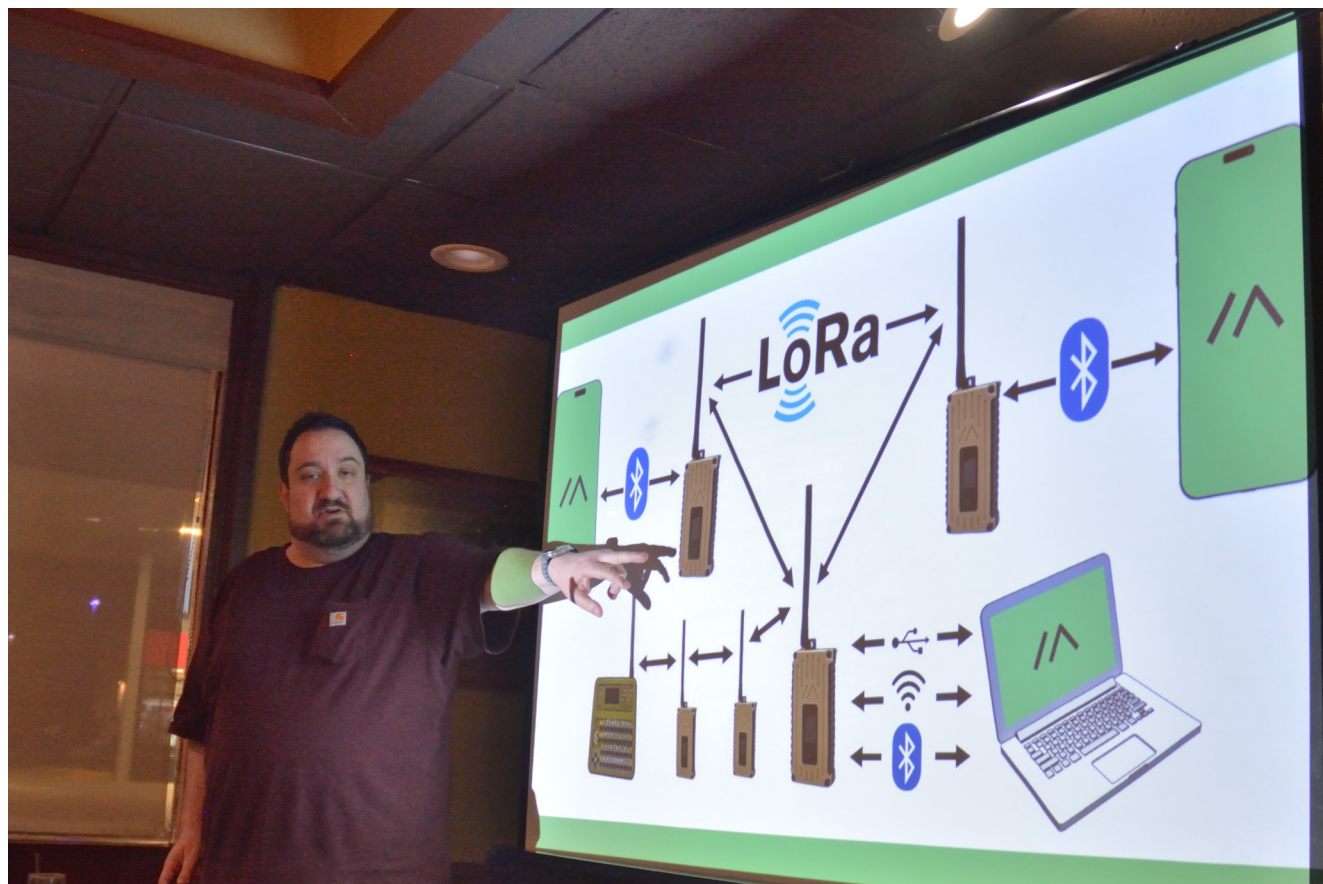
ARRL Audio News – For the latest in Amateur Radio News and Developments, Available and posted weekly every Friday. Check out ARRL.org for the audio link subscriptions to these podcast files.

Ron, K8RJH

March Meeting—Learning About Meshtastic

A special thank you to David Andrzejewski, AD8G who presented an educational and informative discussion of mesh and, specifically, Meshtastic.

Meshtastic is open source, off-grid, mesh network built to run on affordable, low-power devices.



Explaining the off-grid nature, David pointed out, you do not need access to the Internet or a cell phone connection to be able to use it. It uses the unlicensed ISM band, portions of which Amateur Radio shares with unlicensed users.

There are some advantages and disadvantages to using Meshtastic with your Amateur Radio license, David continued. Among the advantages, you can use more power, higher gain antennas, and you can operate on the 433 MHz band in addition to 915 MHz. However, Meshtastic typically uses encryption, which is not permitted when operating under your Amateur Radio license. The choices are, turn off encryption and operate under your Amateur Radio privileges, or operate in accordance with the rules for unlicensed use.

David covered a significant amount of the structure and systems as well as operating procedures and messaging capabilities. He passed around working units and demonstrated live operations. He explained the physical characteristics and capabilities of various pieces of equipment, including a wide range of add-ons and sensors.

In the course of his discussion, he shared some examples of how Meshtastic can be used in various settings. Key to this is the ability to add a variety of sensors to the devices, such as GNSS (global navigation satellite systems). A Meshtastic unit operating a GNSS can be an inexpensive alternative to APRS and has been used to track locations of stations engaged in public service support at events like the Geauga County Fair.

Next CARS Meeting

Tuesday, Apr. 8 - 7:30 PM

Busch Community Room

7501 Ridge Rd. - Parma

Matrt Neely, NU8H

Will present a program on:

**Discord 101-How to Join, Use, and
Stay Connected Using the CARS
Server**

See Website for Details - www.2cars.org



Discord Server New For CARS Members

CARS is pleased to introduce a new resource: the CARS Discord server.

It's a place where we can chat in real-time, exchange ideas and experiences, ask questions, learn new stuff from other hams, and more.

Also, it has a marketplace where you can sell or trade your gear. We all hope that this server will serve (pun intended) all of us by giving us additional communication options.

Discord: is free software that can be installed on your computer and/or smartphone (you can have it on a few devices simultaneously; all messages will be synced). After clicking the join link, you are transferred to the Discord website where you can log in (if you already have a Discord account) or create a free account. When you join the CARS chat, on the left side, you will see different chat rooms dedicated to different topics. The chat rooms will be constantly updated, and new chat rooms and options will be added for your convenience.

Attention Students:

CARS Scholarships



Now is the time to consider applying for one of the annual CARS scholarships. The applications and details are on the CARS website at www.2cars.org/service, and must be completed and received by May 31st. 2025.

Two \$1,000.00 scholarships will be awarded to any CARS member, their son, daughter, grandson, or granddaughter who is graduating, has graduated high school, received a GED, or successfully passed home schooled high school certification.

A CARS check will be issued to each scholarship winner upon submission of successful enrollment in any certified continuing vocational education program, two year, or four year college program or other appropriate accredited school.

May VE Session

The March VE Session was held March 9, 2025. VEs present included: Fred Freer, K8IG; Robert Boehnlein, N8TCP; Steve Spisak, K8SAS; Linda Sinko; N8LRS, Metro Sinko, W8MET

Examinee KE8RZN, Stephen M. Worthington passed Extra Upgrade

The next VE testing session will be held Sunday, May 11th, at 9:15 AM at the Old Elmwood Recreation Center, 6200 Pete Wisniewsky Parkway, Independence 44131. Directions and a map are on the CARS website homepage. For information or an appointment please contact Metro, W8MET, at 216-520-1320 or metro351@sbcglobal.net

As always, walk-ins are welcome.

No matter what your license class is, or how much time you have available to volunteer, your service would be welcome in a number of ways this year! Just be sure to ask any CARS officer or active public service member in our scheduled Monthly Club meetings for current volunteer information.

Special VE Session

A special VE session will also be scheduled at the completion of the CARS licensing classes. Watch the Wobbly Oscillator and the CARS website for additional information, or contact Metro, W8MET.

April Birth- days

Anthony Kuches-KE8OMG 4-2

Ted Elster-K8TED 4-10

Nick Rolin-N8CWE 4-13

Mark Studer-KC8FQV 4-14

Gary Berkowitz-K8REF 4-19

Tim Sanborn, KF8AAF 4/20

Bob Wright-KE8CEO 4-22

John Cobb Sr.-KC8WLY 4-23

Matt Perlman-KE8OZU 4-25

Chris Jochum, KE8JPQ 4/27

Metro Sinko-W8MET 4-27

Bob Check-W8GC 4-29

Robert Haladay-KF8BAO-

March 2025 Meeting Minutes

LOCATION - The meeting was held on March 11th at the Denny's on Day Dr. in Parma, Ohio.

CALLED TO ORDER - President Toby Kolman, WT8O, called the meeting to order at 7:40 PM.

PLEDGE OF ALLEGIANCE - Those present pledged allegiance to the flag of the United States of America.

INTRODUCTIONS - Those present introduced themselves. The meeting had 21 attendees, including three guests.

MEETING MINUTES - As published in the March issue of the *Wobbly Oscillator (WO)*, the February minutes were approved with a note on one correction. The 50/50 winner at the February meeting was Scott, AC8TN.

TREASURER'S REPORT - Matt Perlman, KE8OZU, gave an update covering the following:
Reminded members that dues are due
Reported on the finances; no concerns were reported
The annual financial audit has been completed, and no concerns have been raised.

PRESIDENT'S REPORT - Toby Kolman, WT8O, reported the following:
Voted on membership for Tom Schluter, KB8UXS. His membership was approved.
Licensing classes are going well.
Field Day - The club is looking for operators. If you are interested, please contact Toby to sign up.
This year, the club will operate from Nike Park.
Dayton Bus update provided by Eddie, KD8FTS. Details about the bus pickup locations and times are on the website. Early sign up before the end of March was \$50. After that, it's \$60.
Roster accuracy and availability—Please verify the information on the roster. If it's incorrect, contact the webmaster or Toby.
Reminder about parking at Busch

VP REPORT - Ron Hollas, K8RJH, gave the following updates:
Consider the Value of ARRL Membership! Support ARRL with your Membership and renewals!
Update on learn.arrl.org:
Registration is open for the next interactive session of ARRL's "On the Air Live," which was scheduled for Tuesday, March 25, 2025, at 8 PM Eastern / 5 PM Pacific in the ARRL Learning Center. It focused on advanced functions of handheld radios, including getting them on digital modes. "On the Air Live" is accessed through the ARRL Learning Center at learn.arrl.org. It is a benefit of ARRL membership, and members must be logged into the website to access it for live or archived sessions.
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Update: Intermediate EmComm is now available in the ARRL Learning Center.

Latest ARRL Podcasts:

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SECRETARY'S REPORT - Matt Neely, NU8H, reminded attendees to sign in.

PUBLIC SERVICE - Chuck, K8CVM, shared that all CARS members are invited to the local ESG/ARES meetings. The meetings are held on the third Tuesday of each month, typically at the Helwig Whistle Stop. The next meeting is on Skywarn. Visit <https://n8esg.org/> for details.

The East Versus West Marathon and NVIS Day are coming up.

If you want to join, go to volunteerham.com and create an account. Be sure to select Cuyahoga County.

David, AD8G, shared that GEARS is looking for volunteers for the Blossom Time Run and the Great Geauga County Fair. Please contact David if you are available.

VE UPDATE: Metro, W8MET, gave up an update at the last session. One person upgraded from general to extra and got 100% on their test! The VE Team will be doing a session for our license class.

PROGRAM COMMITTEE - Joe, KD8BAL, reported that:

Today's speaker is David Andreiski, AD8G, who will present on Meshtastic.

April's speaker will be Matt Neely, NU8H, who will present on Discord 101- How to Join, Use, and Stay Connected using the CARS Discord Server.

TECH COMMITTEE - Scott, AC8TN, gave an update on the internet connection at the repeater site. The EchoLink and AllStar nodes are back up.

OLD BUSINESS - Toby, WT8O, led a discussion on the following:

Mentoring sessions will focus on setting up a station. These sessions will be run in parallel with articles in the WO. Please contact Perry, KB8AYQ, if you'd like to contribute.

Discussed the Discord chatroom.

NEW BUSINESS - Toby, WT8O, led a discussion on the following:

The Silvercreek Amateur Radio Association (SARA) is organizing a multi-club POTA on May 31st.

Find out more on their website - <https://w8wky.org/neo-pota/>.

George, K8KR, shared an update on the ARRL cyberattack. He also gave an update on the ARRL funding the QSL bureaus, which will continue for another year.

NEXT MEETING - The Cuyahoga Amateur Radio Society's next meeting will be on April 8th at the Busch Funeral Home on Ridge Road in Parma, Ohio.

ADJOURNMENT - Toby, WT8O, adjourned the meeting.

50/50 Drawing - Ron, K8RJH, won the 50/50 drawing and donated his winnings back to the club.

Submitted by Matt Neely, NU8H, CARS Secretary <https://w8wky.org/neo-pota/>

April Net Sked

Apr	2	K8RJH
Apr	9	KD8ACO
Apr	16	AC8NW
Apr	23	AC8TN
Apr	30	WT8O

Nets are run every Wednesday at

9:00 PM on:

146.820 (PL 110.9)

443.825(+) PL Tone 131.8

Digital Yaesu Fusion / C4FM

Linked to the 146.82 Repeater

EchoLink Node 343470 (K8ZFR-R)

Allstar Node 47067

WIRES X Node 91242-Room 01242

Notes on Q-Signal History

Ron - K8RJH

The Q-signals, or Q-codes, are a fascinating piece of radio history that are still used in amateur radio today. Originally developed in the early 1900s by the British Postmaster General for maritime communication, these three-letter codes, all beginning with "Q," are designed to facilitate communication between radio operators who spoke different languages. For example, "QTH" means "My location is...", "QRM" refers to interference, and "QSL" (Acknowledgment of receipt) are commonly heard across the ham bands.

The story of Q-signals, often referred to as the universal shorthand of the radio world, begins in the early 20th Century. As wireless communication gained momentum, so did the need for a standardized, efficient way to exchange messages across linguistic and national barriers. Enter the Q-code, a set of concise, three-letter signals that revolutionized global communication.

The assignment of Q-signals was a deliberate effort to create an efficient, universal shorthand for communication in early radio. Each signal was carefully chosen to be concise, easily recognizable, and suited for a specific context of use. These three letter codes are unique as they are assigned to always begin with the letter "Q" followed by two letters. The resulting codes in the range QAA–QNZ are reserved for aeronautical use; QOA–QQZ for maritime use and QRA–QUZ for all services

To avoid confusion with these Q-Codes, all transmitter call signs are restricted; no country is ever issued an ITU prefix starting with "Q". This is managed internationally by The International Telecommunication Union [ITU] which allocates call sign prefixes for radio and television stations of all types.

Finally, these early codes were soon adopted internationally, with the Second International Radiotelegraph Convention in 1912 formally recognizing their utility. Here's how they were assigned;

The codes were grouped based on their application—nautical, aviation, or general radio communication. This systematic categorization ensured that each signal was context-appropriate, reducing confusion.

Most Q-codes bear some resemblance to the



Q-Signal "Codes" proved so effective in wireless communications that they were adopted internationally at the Second International Radiotelegraph Convention in 1912. Initially, there were 45 Q-codes, but over time, the list expanded and evolved to suit various radio practices, including amateur radio.

concept they represent. For instance, "QRZ?" (Who is calling me?) sounds like "Who is there?" in English, making it intuitive for operators.

The three-letter format was chosen because it is compact and easy to send in Morse code. All signals began with "Q" to set them apart from ordinary words and radio call signs.

To ensure these codes were universally adopted and useful for operators speaking different languages, their assignment and meaning were standardized by international agreements, like those made during early Radiotelegraph Conventions.

This system allowed radio operators to communicate efficiently, regardless of language barriers or the mode of operation. Q-signals have stood the test of time, evolving to remain relevant today in modern amateur radio!

https://en.wikipedia.org/wiki/Q_code?form=MG0AV3&form=MG0AV3
<https://web.archive.org/web/20150227075623/http://phonetic.org.au/Codes3.pdf>

NAIRNE, S.A.

To Radio *CA2BG* *28.7.25*
 Rcvd. here at *m. Lat* Time *4.15 PM*
 Strength *R8* Fading *None*
 Quality *clear* Wavelength *32.M.*
 Receiver Used Det. *Audio* *Schnell*
 Antenna *30 ft. High*

Remarks

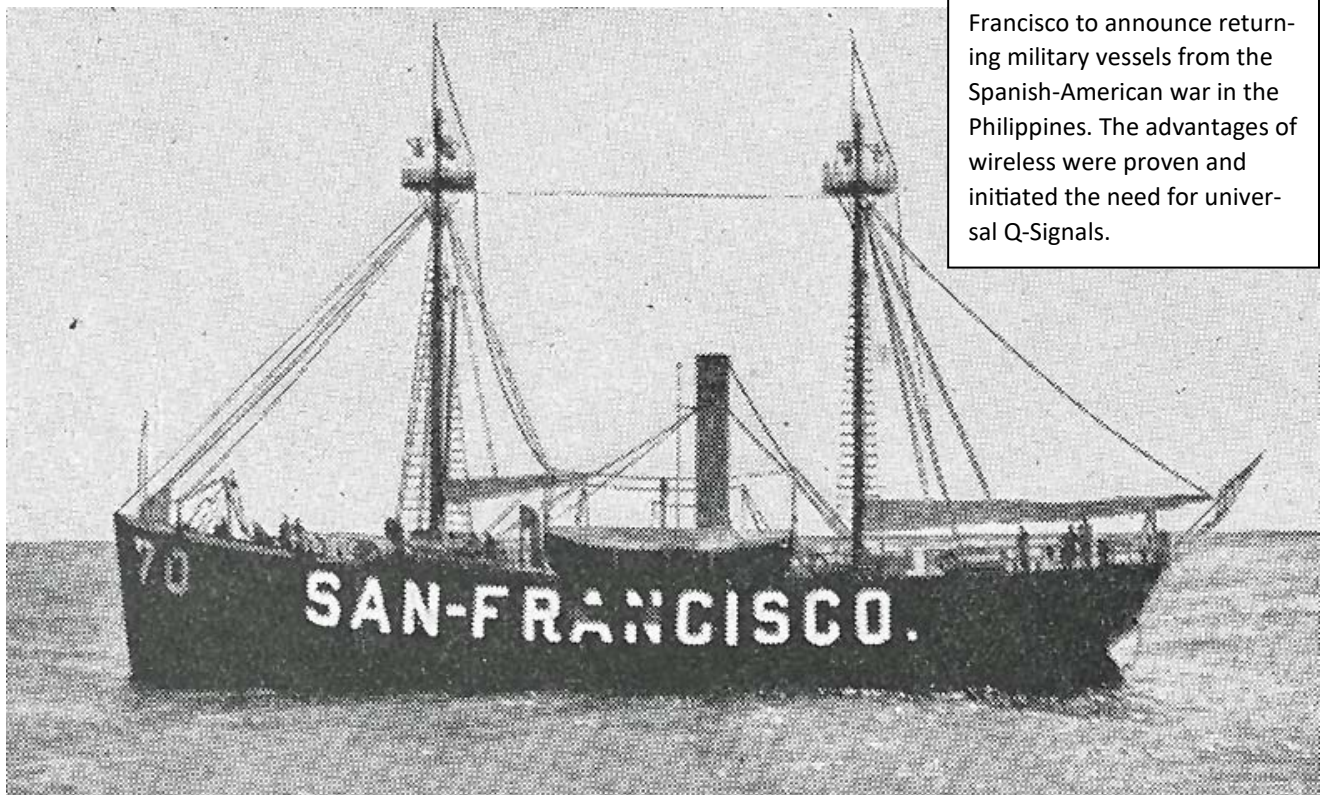
*Had you on code, Extra punch here slight ripple easy
 to read No GRM or GSS Post 173'6M ex D.X.*

S. PREISS

Syd Preiss Box 3 Nairne SA.

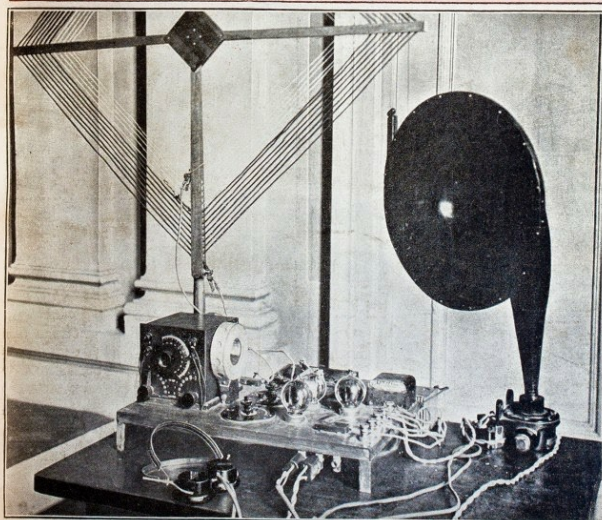
Early QSL card from Syd Preiss, Nairne, South Australia to Radio Operator VK3BQ Max Howden. Many shortwave listeners printed their own QSL cards to report reception.

The first documented Ship to Shore wireless transmission in the United States was sent by Lightship 70, August 23, 1899, stationed offshore of San Francisco to announce returning military vessels from the Spanish-American war in the Philippines. The advantages of wireless were proven and initiated the need for universal Q-Signals.



QST

Devoted Exclusively to
CITIZEN RADIO
Published by the
AMERICAN RADIO RELAY LEAGUE



The Armstrong Super-Regenerator—This Issue

AUGUST '22

20¢

**Do you have a favorite QSO story,
or a special QSL card?**

Share it by contacting WO editor Perry, KB8AYQ

In amateur radio, QST is commonly used to mean "general information or announcements to all operators." It's often associated with messages directed to all hams, like bulletins or important updates. The term became especially well-known because of QST magazine, which is published by the American Radio Relay League (ARRL). The magazine serves as a key resource for amateur radio operators, featuring technical articles, news, and updates about the ham radio world.

The journey of Q-signals from the high seas to the amateur airwaves highlights the adaptability and ingenuity of the radio community. Here is some Q-signal-inspired humor for the radio-savvy crowd:

1. Why did the ham radio operator go QRT at the party?

He couldn't find the right frequency to mix!

2. I told my ham buddy I was experiencing QRM...

He said, "Just turn the dial and let the noise deal with itself!"

3. What's an amateur operator's favorite exercise?

QRZ-ercise—lifting all those heavy antennas!

4. My QTH?

It's wherever the snacks and radio gear are.

5. Why did the operator whisper into the mic?

Because he was practicing QRP communication!

Honorary Members

Any person who by nature of outstanding or meritorious contribution to the furtherance of amateur radio and the ideals of the Cuyahoga Amateur Radio Society

Robert Check, W8GC

Elected 2/10/15

Thomas Wayne, WB8N

Elected 1/10/17

Dwaine Modock, K8ME/SK

Elected 5/9/17

Toby Kolman, WT8O

Elected 10/10/17

Jerry Smith, NW9H

Elected 5/8/18

Ron Borkey, K8VJG/SK

Elected 5/14/19

Ed Stevens, WB8ROK/SK

Elected 8/10/21

Vince Bak, N8OVW/SK

Elected 11/14/23

For Sale

Bill, WA8GEO has gear for sale:

40 meter travel transceiver, 15 Watts SSB, \$125.00

10 meter, 25 Watt AM/FM/SSB transceiver, \$150.00

GAP Eagle antenna, 50 ft. of coax, mast vertical, \$50.00

20/40 meter dipole, 48 ft. RG58, \$15.00

4-position antenna switch, \$20.00

Low-band SWR bridge, \$20.00

440 MHz Alinco DJ496 HT and charger, needs battery, \$50.00

If you are interested in any of these items, contact Bill WA8GEO.

If you have amateur radio-related items to sell or if you are looking to pass them along, you can list them in the WO. Please contact Toby WT8O to determine the suitability of listing the items in the newsletter. Provide a description of the items, and include their condition and the price. Please indicate how you would like to be contacted. Otherwise, members will be referred to the Member Roster for your contact information.

Are You Up to Date?

Check the CARS roster to ensure your information is correct. The roster is available as a members-only service to provide contact information for members and to encourage member interaction.

Hamvention Bus . . .

The Dayton Hamvention is May 16-18.

Make reservations for the Hamvention Bus, which will run on Saturday the 17th from Parma to the Hamvention and back. Contact Eddie, KD8FTS for more information at cars@kd8fts.com



CARS Repeaters

146.820 (-) PL Tone 110.9

Analog Repeater

Main Site – Brecksville

Receive Only Site – Brunswick

Receive Only Site – Shaker Hts.

AllStar Node 47067

EchoLink Node 343470 (K8ZFR-R)

WIRES X Node 91242 Room 01242

443.825 (+) PL Tone 131.8

Digital Yaesu Fusion

Linked to 146.820 Repeater

Brecksville

444.75 (+) PL Tone 131.8

Analog Repeater

Not Linked to Other Repeaters

Shaker Hts.

2025 CARS Committees, Officers, Board and Trustees

CARS 2025 Committees

50/50

Chair: Andy Evridge, KD8SCV

Member: Joe Ulazewski, KD8BAL

ARRL Liaison

Chair: Ron Hollas, K8RJH

Audio/Video

Chair: Scott Smith, AC8NW

Audit

Chair: Ron Hollas, K8RJH

Members: Eddie Stevens, KD8FTS and Toby Kolman, WT8O

Awards

Co-Chairs: Toby Kolman, WT8O and Mark Moro, WJ8WM

Field Day

Co-Chairs: Bob Robbins, K8RGI and Toby Kolman, WT8O

Members: Scott Smith, AC8NW, David Korow, AC8TN, Arp Viiberg, K8ARP,

Ron Hollas, K8RJH, Andy Evridge, KD8SCV and Mark Moro, WJ8WM

Hamvention Bus

Chair: Eddie Stevens, KD8FTS

Historian

Chair: Toby Kolman, WT8O

Holiday Party, Summer Picnic

Chair: Toby Kolman, WT8O and Mark Moro. WJ8WM

License Classes

Chair: David Noeth, KD8ACO

Members: Joel Chaney, K8SHB, Ron Hollas, K8RJH and
Toby Kolman, WT8O

Media Representative

Chair: Andy Evridge, KD8SCV

Membership

Chair: Toby Kolman, WT8O

Member: Matt Perlman, KE8OZU

Net

Chair: Toby Kolman, WT8O

Members: Scott Smith, AC8NW, David Korow, AC8TN,
Ron Hollas, K8RJHb and David Noeth, KD8ACO

Newsletter

Chair: Perry Trunick, KB8AYQ

Member: Yuri Sivitski, W4YSW

Programs at Meetings

Chair: Joe Ulaszewski, KD8BAL

Members: Eddie Stevens, KD8FTS and Matt Perlman,
KE8OZU

Public Service

Chair: Eddie Stevens, KD8FTS

Member: Arp Viiberg, K8ARP

QSL Manager

Chair: Metro Sinko, W8MET

Quartermaster

Chair: Toby Kolman, WT8O

Records Custodian

Chair: Terry Pillatt, KB8DTC

Refreshments - Coffee

Chair: John Dernar, NU8Y

Refreshments - Donuts

Chair: Matt Neely, NU8H

Refreshments - Pop

Chair: Mark Rosewitz, KC8ESG

Scholarship

Chair: Toby Kolman, WT8O

Members: Bob Robbins, K8RGI, Ron Hollas, K8RJH, Matt Perlman, KE8OZU, and Mark Moro, WJ8WM

Sunshine (Welfare)

Chair: Andy Evridge, KD8SCV

Technical

Chair: Scott Smith, AC8NW

Members: Mark Scoville, AD8KE, Ron Hollas, K8RJH, Terry Pillatt, KB8DTC, Mark Rosewicz, KC8ESG, David Noeth, KD8ACOb and Mark Moro, WJ8WM

VE Exams

Chair: Metro Sinko, W8MET

Members: Members: George Pindroh, K8KR; Fred Freer, K8IG: David Korow, AC8TN, Simpson Huston, N8UZF, Matt Neely, NU8H

Webmaster/email

Chair: Matt Perlman, KE8OZU

2025 Officers

President

Toby Kolman, WT8O

440-525-6109

wt8o@att.net

Vice-President

Ron Hollas, K8RJH

216-379-7440

ron@hollas.co

Secretary

Matt Neely, NU8H

216-965-4476

matt@matthewneely.com

Alternate Secretary:

Matt Perlman, KE8OZU

Treasurer

Matt Perlman, KE8OZU

216-337-1540

matt@seagem.me

CARS 2024 Executive Board

Board Chair

Mark Moro, WJ8WM

[216-496-2871](tel:216-496-2871)

Even Year Board Members

**Scott Smith, AC8NW; John Derner, NU8Y, and
Mark Moro, WJ8WM**

Odd Year Board Members

**Eddie Stevens, KD8FTS; Mark Rosewicz, KC8ESG,
and Al Farley, KF8BCC**

CARS License Trustees

K8ZFR Trustee

Toby Kolman, WT8O

W8BM Trustee

Mark Moro, WJ8WM

W8HBI Trustee

Matt Perlman, KE8OZU

